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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/801,675

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Mitsuyuki Nakamura

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09/30/2005

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EXAMINER

NGUYEN, HOANG V

ART UNIT

PAPER NUMBER

2821

DATE MAILED: 09/30/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/801,675

Applicant(s)

NAKAMURA, MITSUYUKI

Examiner

Hoang V. Nguyen

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-4, 9-12, 17, 19 and 20 is/are allowed.
- 6) ☒ Claim(s) 5 is/are rejected.
- 7) ☒ Claim(s) 6-8, 13-16 and 18 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 9/12/05.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

Response to Arguments

1. Applicant's arguments filed on 18 August 2005 have been fully considered but they are not persuasive.
2. In response to applicant's arguments, the recitation "of transmission type" has not been given patentable weight because the recitation occurs in the preamble. A preamble is generally not accorded any patentable weight where it merely recites the purpose of a process or the intended use of a structure, and where the body of the claim does not depend on the preamble for completeness but, instead, the process steps or structural limitations are able to stand alone. See *In re Hirao*, 535 F.2d 67, 190 USPQ 15 (CCPA 1976) and *Kropa v. Robie*, 187 F.2d 150, 152, 88 USPQ 478, 481 (CCPA 1951).

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claim 5 is rejected under 35 U.S.C. 102(e) as being anticipated by Johnson et al (US 6,844,854 B2).

Johnson (Figures 2 and 5) teaches an antenna device comprising two antenna elements 6 and 8 opposed each other, a signal being fed between the two antenna elements, wherein the two

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antenna elements are spaced apart from each other by a distance smaller than the wavelength of the fed signal (claim 6).

Allowable Subject Matter

5. Claims 6-8, 13-16 and 18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

6. Claims 1-4, 9-12, 17, 19 and 20 are allowed.

7. The following is a statement of reasons for the indication of allowable subject matter:

Regarding claim 1, Hill et al (US 6,104,354) discloses an antenna device comprising two antenna elements 22 and 24 opposed each other, a signal being fed between the two antenna elements; and a variable-capacitance unit 30. Hill, however, fails to specifically teach that the variable-capacitance unit being provided at one or both of connection points at which opposite ends of the two antenna elements are connected to each other.

Claims 2-4, 9-12, 17, 19 and 20 are allowed for depending on claim 1.

Regarding claim 6, Johnson teaches an antenna device comprising two antenna elements opposed each other, a signal being fed between the two antenna elements, wherein the two antenna elements are spaced apart from each other by a distance smaller than the wavelength of the fed signal. Johnson, however, fails to specifically teach that the length of each of the portions of the portions of the two antenna elements on the opposite sides of a feed point is equal to or smaller than $\frac{1}{4}$ of the wavelength of the fed signal.

Claim 14 would have been found allowable for depending on claim 6.

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Regarding claim 7, Johnson fails to further teach, among other features, a variable-capacitance unit being provided at one or both of connection points at which opposite ends of the antenna elements are connected to each other.

Claims 8, 15 and 16 would have been found allowable for depending on claim 7.

Regarding claim 13, Johnson teaches an antenna device comprising two antenna elements opposed each other, a signal being fed between the two antenna elements, wherein the two antenna elements are spaced apart from each other by a distance smaller than the wavelength of the fed signal. Johnson, however, fails to specifically teach that the antenna device being mounted along peripheral side portions of a frame.

Regarding claim 18, Johnson teaches an antenna device comprising two antenna elements opposed each other, a signal being fed between the two antenna elements, wherein the two antenna elements are spaced apart from each other by a distance smaller than the wavelength of the fed signal. Johnson, however, fails to specifically teach that the two antenna elements form a pair of parallel lines are bent in other than a straight line.

Conclusion

8. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period

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will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hoang V. Nguyen whose telephone number is (571) 272-1825. The examiner can normally be reached on Mondays-Fridays from 9:00 a.m. to 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoang Nguyen can be reached on (571) 272-1825. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

10. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hvn
9/27/05



HOANG V. NGUYEN
PRIMARY EXAMINER